

**BROWN AND  
CALDWELL**

Date: March 2008

Atlantic Richfield  
Company

Project: 134557

**Well B/W-23  
Construction Details**

Project Name: Yerington Second Step Hydrogeologic Framework Assessment

Project Number: 132025

Soil Boring: ☐Monitoring Well: ☒Piezometer: ☐

Boring/Well Number: B/W-23

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<b>Boring Location:</b> Directly North of Weed Heights.		<b>Northing:</b>	<b>Easting:</b>
<b>Drilling Contractor:</b> Boart Longyear	<b>Driller:</b> R. Salois	<b>Top of PVC Elevation:</b> feet amsl	
<b>Drilling Equipment:</b> GP24-300RS	<b>Borehole Diameter:</b> 6-inches	<b>Ground Surface Elevation:</b> feet amsl	
<b>Drilling Method:</b> Sonic	<b>Drilling Fluid:</b> Water	<b>Date Started:</b> 7/25/07	<b>Date Finished:</b> 8/8/07
<b>Sampling Method:</b> Core Barrel		<b>Completed Depth:</b> 314 fbgs	<b>Water Depth:</b> fbmp
<b>Well Seal:</b> Bentonite and Cement		<b>WELL CONSTRUCTION</b>	
<b>Logged By:</b> P. Spillers, R. Banda, and C. Strauss		<b>Type and Diameter of Well Casing:</b> 2-inch Schedule 80 PVC	
		<b>Slot Size:</b> 0.010 inch	<b>Filter Material:</b> #10-20 Silica Sand

Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
5		SM	<b>Silty Sand with Gravel (0 - 8)</b> Dry, medium dense, no odor. Primarily medium to fine sand with ~15% gravel to 90 mm with ~15% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and have a weak to strong reaction to HCl.					Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.  Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.  Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.  All depths are below land surface unless stated otherwise.  WELL DESIGN for B/W-23: PVC Stickup: feet. Cement - Bentonite Grout: 0 - 291 feet Bentonite Chips: 291 - 297 feet No. 60 Silica Sand: 297 - 299 feet #10-20 Silica Sand Filter Pack: 299 - 313 feet 2-inch Nominal Schedule 80 PVC 0.010 Slotted Screen: 302 - 312 feet Native Collapse: 313 - 314 feet Additional Bentonite Fill: NA feet
10		GP-GM	<b>Poorly Graded Gravel with Silt and Sand (8 - 15)</b> Dry, dense, no odor. Primarily gravel to 60 mm with ~35% medium to fine grained sand and 5-10% silt and clay. The sand and gravel are angular to subangular. The fines have no plasticity and low toughness, and have a weak to strong reaction to HCl.					Number of wells at this location: 1 Screen intervals for paired wells are labeled at the installed depths.

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
20		SM	<b>Silty Sand (15 - 16)</b> Dry, medium dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a weak reaction to HCl.					
		GP-GM	<b>Poorly Graded Gravel with Silt and Sand (16 - 18)</b> Dry, dense, no odor. Primarily gravel to 40 mm with ~30% medium to fine grained sand and ~10% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SC	<b>Clayey Sand with Gravel (18 - 29)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 40 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have no reaction to a weak reaction to HCl.					
25								
30		SM	<b>Silty Sand (29 - 38)</b> Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
35								
		SC	<b>Clayey Sand (38 - 41)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~25% silt and clay. The sand and gravel are angular to subangular. The fines have low to medium plasticity with low toughness, and have a strong reaction to HCl.					
40		SM	<b>Silty Sand (41 - 44)</b> Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to strong reaction to HCl.					
		SW-SM	<b>Well-Graded Sand with Silt and Gravel (44 - 50)</b> Dry to slightly moist, dense, no odor. Primarily coarse to fine sand with ~20% gravel to 70 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and have a weak to strong reaction to HCl.					
45								
		SM	<b>Silty Sand with Gravel (50 - 52)</b> Dry to slightly moist, dense, no odor. Primarily medium to fine sand with ~20% gravel to 70 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, and have a weak to strong reaction to HCl.					
50		SC	<b>Clayey Sand with Gravel (52 - 58)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 30 mm and ~20% silt and clay.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
55			The sand and gravel are angular to subangular. The fines have low to medium plasticity with low toughness, and have a weak to strong reaction to HCl.					
60		SC	<b>Clayey Sand (58 - 61)</b> Dry, loose to dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a weak reaction to HCl.					
65		SC	<b>Clayey Sand (61 - 69)</b> Dry, loose to dense, no odor. Primarily medium to fine sand with ~10% gravel to 25 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a weak reaction to HCl.					
70		SC	<b>Clayey Sand with Gravel (69 - 75)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 90 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl. Zone has some large gravel or small cobbles.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
75		GC	<b>Clayey Gravel with Sand (75 - 92)</b> Dry, very dense, no odor. Primarily gravel to 100 mm with ~25% medium to fine grained sand and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl. Six-inch diameter cobble at 85 feet.					
80								
85								
90								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
95		SC	<b>Clayey Sand with Gravel (92 - 94)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~25% gravel to 40 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.					
		SC	<b>Clayey Sand with Gravel (94 - 97)</b> Dry, dense, no odor. Primarily medium to fine sand with ~20% gravel and cobbles to 90 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
100		SC	<b>Clayey Sand with Gravel (97 - 100)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~30% gravel to 50 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl. Zone has some small, highly plastic clay lumps.					
105		GC	<b>Clayey Gravel (100 - 117)</b> Dry, very dense, no odor. Primarily gravel to 200 mm and some cobbles up to 6-inch diameter. Also, ~10% medium to fine grained sand and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
110								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
115								
		SC	<b>Clayey Sand with Gravel (117 - 119)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 30 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
120		GM	<b>Silty Gravel with Sand (119 - 121)</b> Dry, very dense, no odor. Primarily gravel to 120 mm with some cobbles, ~30% medium to fine grained sand, and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
		SM	<b>Silty Sand (121 - 125)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
125		SC	<b>Clayey Sand with Gravel (125 - 126)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~25% gravel to 30 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl. Zone has some highly plastic clay lumps which look tuffaceous.					
		SC						
		SP-SM	<b>Clayey Sand (126 - 127)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.					
		SM						
			<b>Poorly Graded Sand with Silt (127 - 128)</b>					

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130			<p>Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>					
		SC	<p><b>Silty Sand (128 - 131)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.</p> <p><b>Clayey Sand (131 - 140)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
135								
		SC	<p><b>Clayey Sand (140 - 143)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
140								
		GM	<p><b>Silty Gravel with Sand (143 - 148)</b> Dry, very dense, no odor. Primarily gravel to 70 mm with ~25 medium to fine grained sand and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl. There are some clay lumps and rocks that look tuffaceous.</p>					
145								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
150		SC	<b>Clayey Sand (148 - 150)</b> Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
		SM	<b>Silty Sand with Gravel (150 - 153)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
155		SC	<b>Clayey Sand (153 - 156)</b> Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
		SM	<b>Silty Sand with Gravel (156 - 162)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
160								
		SM	<b>Silty Sand (162 - 165)</b> Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 25 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
165		SC	<b>Clayey Sand (165 - 176)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 25 mm with ~40% silt and clay. The sand and gravel are subangular to subrounded. The fines have moderate to high plasticity, is very tough, and do not react to HCl. Ends with a gravel zone from 175-176 feet.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
170								
175								
180		GC	<b>Clayey Gravel with Sand (176 - 181)</b> Dry, dense, no odor. Primarily gravel to 50 mm with ~35% medium to fine grained sand and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity, is very tough, and do not react to HCl.					
		SM	<b>Silty Sand (181 - 183)</b> Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
		GM	<b>Silty Gravel with Sand (183 - 184)</b> Dry, very dense, no odor. Primarily gravel to 90 mm with some rounded cobbles. Also, ~30% medium to fine grained sand and ~20% silt and clay. The gravel is subangular to rounded and the sand is angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.					
185		SM						
		SM	<b>Silty Sand (184 - 185.5)</b> Dry, dense, no odor. Primarily medium to fine sand with ~10% gravel to 30 mm and ~15% silt and clay. The gravel is angular to subangular and the sand is					



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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
210		SM	<b>Boulder (206 - 207.5)</b> Dry, very dense, no odor. Primarily fine sand with ~20% gravel. Zone includes a 12-inch cobble/boulder and ~30% fines. The fines are very grey and have the same consistency as the cobble. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
			<b>Silty Sand with Gravel (207.5 - 210)</b> Dry, dense, no odor. Primarily medium to fine sand with ~20% gravel to 60 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.					
			<b>Boulders (210 - 214)</b> Dry, very dense, no odor. Large boulder zone -- fines are gray powder from rock. May be one large boulder or may boulders with diameters > 12-inches.					
215		SC	<b>Clayey Sand with Gravel (214 - 215)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 30 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.					
			<b>(215 - 217)</b> Dry, very dense, no odor. Large boulder zone -- fines are gray powder from rock. May be one large boulder or may boulders with diameters > 12-inches.					
		SC	<b>Clayey Sand with Gravel (217 - 219.5)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 35 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.					
220		GW-GC	<b>Clayey Gravel with Sand (219.5 - 223.5)</b> Dry, very dense, no odor. Primarily gravel to 6-inches with ~20% medium to fine sand and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low to medium plasticity and toughness, and do not react to HCl.					
		SC	<b>Clayey Sand (223.5 - 225)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~35% silt and clay.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
225		SM	<p>The gravel is angular to subangular and the sand is subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p> <p><b>Silty Sand with Gravel (225 - 228)</b> Dry, dense, no odor. Primarily medium to fine sand with ~15% gravel to 30 mm and ~15% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl. Zone has a few thin silty clay interbeds.</p>					
230		SC	<p><b>Clayey Sand with Gravel (228 - 235)</b> Dry, dense, no odor. Primarily medium to fine sand with ~20% gravel to 30 mm and ~30% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines have low to medium plasticity and toughness, and do not react to HCl.</p>					
235		GW-GC	<p><b>Well-Graded Gravel with Clay and Sand (235 - 241)</b> Dry, very dense, no odor. Primarily gravel to 70 mm with ~15% medium to fine grained sand with ~35% silt and clay. The sand and gravel are angular to subangular. The fines have low to medium plasticity, are very tough, and do not react to HCl.</p>					
240			<p><b>Boulder (241 - 243)</b> Dry, very dense, no odor. Boulder consists of silicous volcanic rock with lithic fragments.</p>					
		SC	<p><b>Clayey Sand (243 - 244)</b></p>					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
245		SC	<p>Dry, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.</p> <p><b>Silty Sand (244 - 246)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~20% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
		GC	<p><b>Clayey Gravel with Sand (246 - 247)</b> Dry, very dense, no odor. Primarily gravel to 30 mm with ~25% medium to fine grained sand and ~20% silt and clay. The sand and gravel are angular to subangular. The fines have medium plasticity and toughness, and do not react to HCl.</p>					
		SC	<p><b>Clayey Sand with Gravel (247 - 249)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~20% gravel to 35 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
250			<p><b>Boulder (249 - 251.5)</b> Dry, very dense, no odor. Boulder consists of silicous volcanic rock with lithic fragments.</p>					
		SC	<p><b>Clayey Sand (251.5 - 253)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
			<p><b>Boulders (253 - 255)</b> Dry, very dense, no odor. Boulder consists of silicous volcanic rock with lithic fragments.</p>					
255		SC	<p><b>Clayey Sand with Gravel (255 - 256)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~25% gravel to 20 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
			<p><b>Boulders (256 - 263)</b> Dry, very dense, no odor. Boulder consists of silicous volcanic rock with lithic fragments.</p>					
260								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
265		SC	<b>Clayey Sand with Gravel (263 - 264)</b> Dry, very dense, no odor. Primarily medium to fine sand with ~25% gravel to 20 mm and ~25% silt and clay. The sand and gravel are angular to subangular. The fines have low to medium plasticity with low toughness, and do not react to HCl.			 		
270								
275								
280								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
285								
290								
295								
300								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
305								
310								
			Bottom of Borehole at 314 feet below ground surface.					